285 handle (fig. 8a), used for drying sweet substance obtained from cane (p. 19).

415 (e) Saddles were formerly made from tules.

[492] In contrast to twined ware, all of which was plain, all coiled ware except piñon jars had designs in red, or red and black basketry material;

415 money jars further decorated with row of black

●531 mt. quail crests and, in post-white times, red yarn, inserted around shoulders. Pieces of abalone shell, shell or glass beads not used for decoration.

531 Either informants had forgotten them, or else few designs had names; when shown some 26 designs taken from Tübatulabal basketry collections, SM recognized 3 (fig. 9) which had descriptive names, king snake design (pokpo·go´no·lo·wun),

Fig. 9. Basket design elements. a, rattlesnake; b, little boy; c, kingsnake.

little boy design (anayhi·lo·wun), rattlesnake

[532] design (cĭmĭndiŋlo·wun), "a hard pattern" (ES). Human figure design aboriginal (SM); pictographs of human figures in territory tend to confirm this, although Kroeber holds human figures on baskets result of American influence (Kroeber,

[171] Handbook, 541). ES recognized several Yokuts designs (Kroeber, Handbook, 533, fig. 47, nos. 1, 8, 15, 16) which she had seen on Tübatulabal baskets, but did not know names for them.

285 Mats.- Mats (paht) were made from whole dried trimmed tules, which were soaked before being woven; mats 3-5 ft. wide, of varying lengths, made in plain twined weave with each series of tule weft elements spaced about 3 in. apart. Top, bottom edges finished with tule braid (ta·ła·bil). Specimen 1-21064, large tule mat used for house covering, has braid edge, as has fragment of mat 1-28574; specimen 1-28575, also fragment, has wrap edge. Large mats used to cover walls, floors of living houses, to sit on while working outside, to sleep on. Small tule mats bordered with tule braid, but lacking weft bandings, used on both types baby cradles; hood for baby's second cradle also of tules.

281 Rabbitskin blanket.- Fur blankets (wihnibĭ·l)

286 made from jackrabbit skins; woven on 4-post frame (fig. 10), chiefly by men. About 12 (SM), 40 (FP) skins needed for blanket, which was "as big as woolen double blanket" (MM), 6 x 8 ft. (SM). Jacks skinned, making cut down belly; fresh skin cut from head to tail into strips 1 1/2 in. wide, about 15 in. long; these rolled

281 on thigh immediately and ends tied together to
286 make long strip which was stretched between 2 trees to dry for 2-3 days (SM). FP said whole skins dried first, then cut into strips which were rolled, then tied together.

a b

Fig. 10. Rabbitskin blanket weaving frame. a, model of frame, with beginning of warp setup shown (x); b, completed warp setup.

To set up warp (fig. 10), 4 posts 3 ft. high set in ground several feet apart to form square or rectangle of same size as blanket would be; length of native twine tied around post, near top, then run around outside of 4 posts; when it was brought back to starting point twine was passed under and over string on 2 opposite sides of frame until complete warp set up. Rabbitskin weft element then tied to warp at one corner and twined under and over warp threads. SM, who set up model of frame and warp, did not know whether weft was tied to each warp at point of intersection. Blankets used as capes, bed coverings. Squirrelskin, feather blankets not made (SM, FP, PN).

531 Beadwork formerly lacking (SM); ES had learned
177 to make beaded hat bands on bow loom (Steward, 1933, 273, fig. 6) from her sister-in-law, an Owens Valley Paiute who occasionally visited among Tübatulabal.

286 Nets.- Nets made, used by men; manufactured from 2-ply native twine. Rabbit net was 200 ft. long, 3-3 1/2 ft. wide, with 3-in. loops; man's
[171] carrying net similar to Koso net (Kroeber, Handbook, 591, fig. 53): was tied at both ends with twine and had 2 ends tied together; net carried over shoulder (SM). Fish nets, according to FP, who could not remember names for them, were of 2 types (p. 14), but details of their manufacture could not be obtained.

283 Pack strap.- Pack strap (pongon) made from
482 native rope with forehead band (le·winišt) which was flat, 1 in. wide, made from 4 strands of native twine. Used with pack basket.

Twine, cordage.- String (u·wil) made from in-
[171] ner fibers of milkweed shoots (ma·wil), Apocynum cannabinum L., foothill floral area, as among Northfork Mono (Gifford, 1932 b, 28); twine always 2-ply, but of varying thickness depending on use for which it was intended. As length of cord grew when it was being rolled out on thigh,

103 boulder at base of mts. (pl. 6d), 3 mi. SW of Onyx and 1/2 mi. E of Kelso creek, SW quarter, [773] sec. 20, T26S, R34E. Coyote broke this long boulder in 3 pieces when Bluejay tried to build a bridge from top of mts. across valley to Nichols peak.

12. hamboyam, Cane creek; general term for cane.

13. punʂi·ba·n, meadow containing pit mortar at base of foothills, 1/2 mi. NW of Onyx, SW quarter, sec. 5, T26S, R35E.

14. lelet, Nichols peak. At end of Mythical age Eagle elected to live on this peak (Voegelin, 1935 b, 207).

15. cu·iyala'a ka·ʂa·ban, Spider's pot; rocky ledges on w. edge of first flat SW of Wel- [773] don, NE quarter, sec. 22, T26S, R34E. Spider had cooked chia mush; he came here and spread it out on a rock for his children to eat.

16. kutu'wi·ban, spring at head of canyon, first flat SW of Weldon, sec. 23, T26S, R34E. Eagle and his wife lived here.

17. ku·či·a·pu·lap, spring, head of second flat SW of Weldon.

18. wa·tiniš, Juniper place; 3 mi. SW of Weldon in foothills on s. edge of South Fork valley at mouths of 2 intermittently flowing streams; SE quarter, sec. 29, T26S, R34E.

19. Cave, 3 1/2 mi. W of Cook peak on Goat ranch; NW quarter, sec. 6, T27S, R34E. Abode of a mythological man-monster.

20. anayupun, flat, 4 mi. NE of Isabella on Murphy ranch; the E and W winds fought here.

21. paʈat, springs 2 mi. NE of Cook peak, E side of wide plain; SW quarter, sec. 24, T26S, R33E.

22. pi·li·wi·ban, mt. (?) near Isabella; given in Kroeber, Handbook, 607, as Piliwinipan, near Whiskey Flat or Kernville.

23. yaha·waban, junction point of Kern and South Fork of Kern r.; "just a name; there was no village there" (SM); Kroeber, Handbook, 607, gives Yahaua-pan as name for village site here.

24. yu·mu·gi·wala'aŋ pa·i·na·'aban, obscure meaning in reference to mythological creatures; junction point of Kern and South Fork of Kern r.

25. palakuč, fishing site on Kern r., 3 mi. SW of confluence of Kern and South Fork of Kern r.; NE quarter, sec. 1, T27S, R32E; near Indian [531 mound, now leveled, on Monroe Bechtel ranch. 532a] Pictographs abundant at this site.

26. pi·ta·lap, summit on road from Hot Springs valley to Caliente and Tejon ranch.

27. palakuič, Walker basin.

28. paluntanakamapan, water where it falls; fishing site at rapids near w. end of Kern r. gorge; given in Kroeber, Handbook, 607, as name for Bakersfield.

29. pawačahalap, acorn grounds 3 mi. W of Kernville, in Greenhorn mts.

30. wa·gi·na·pu·ban, Split mt., NW of Kernville; Kroeber, Handbook, 607, gives Wokinapüipan as village site on Kern r.

[p. 40(6)]

532 figures at pa·la·ku·č (fig. 14), at 3 South Fork sites all figures painted in red; at pa·la·ku·č majority of figures in red, but a few in red and black and one, of snake (?), in black, outlined in yellow.

Little or no plastic representation, except for crude dolls children made; no realistic carving. Tule image of deceased person carried at mourning ceremony (see Rituals).

[778]

531 Symbolism apparently entirely lacking; informants could give no explanations for feather wand, woodpecker bands, other paraphernalia carried at mourning ceremonies (see Rituals); one item common among Great Basin, California tribes, that of decorating baby cradles according to sex of child (Kelly, 134; Steward, 1933, 273; Kroeber, Handbook, 536) consistently denied among Tübatulabal. A few basket patterns had descriptive names (ante).

[171]

802 Knowledge.- Decimal system used; count has been recorded (Voegelin, 1935 a, 178). Large numbers of rabbits, fish which were to be divided between several persons had to be portioned out. Sticks, marks in sand not used in division.

805 Year (šuwa·l, world) divided into u·dalami·k, fall, "when the sun is shorter" (SM); tomo·waš, winter; taha·waš, summer, "when the sun goes higher" (SM). Doubtful if solstices observed. Year divided into lunations, months starting on each crescent moon; some lunations named descriptively: ču·u·ga·nan čuwi·la·t, icicles hanging down (January?), which was followed by hu·litap, everything green; ku·la·$^{wit}$, when grass is ready to bloom; ibi·n wi·$^{yal}$, time when flowers bloom. Rest of lunations unnamed or informants had forgotten their names; no month names taken from names for fingers.

821 Stars (šu·l) not used at night for guidance;
773 not counted above 3 (Voegelin, 1935 a, 179) because "a long time ago the Indians counted all the stars and they died; that's why they're afraid to count them now" (SM). Milky Way (owi·dinpo'in, dove's fire) caused by doves who "made a fire and the smoke went white" (SM); this part of myth which SM would not tell in summertime. "The Mexicans say the Milky Way is piñole" (SM). Pleiades (a·na·wišt) are 7 women who left husbands and went up in sky. Morning star (yeu'wišn) seemed to have no myth connected with it. SM had heard of star shower, but had no comments to make.

Crescent moon lying on back presages dry weather; upright it is full of water (SM). Rainbow (tanibo·'in) has myth attached to it.

At eclipse of sun (u·muktal) people put powdered tobacco on palm of hand and blew it toward sun, shouting 3 times, "Sun, don't die; come alive," or similar entreaties. If sun should ever die, large snake (wai·i·ni·š) living up in sky would fall to earth (SM).

823 Earth dome-shaped, surrounded by water. Earth-
773 quakes (šuwa·l šidu·gat, world shaking) caused by woman (p. 60).

Directional terms obsolescent; wi·nan, N, pa·lami·k, W, talami·k, E; possibly others.

531
532

Fig. 14. Pictographs at hamlet site no. 2.

774
776 seen an old woman going from one spring to another on his rancheria; this old woman lived in and owned one of the springs; at another spring an otter (?), le·uše·p, could often be heard, crying "č, č, č." Man fishing at Kernville had seen small person, pa·nugiš, with human hands, fingernails 2 in. long, pulling at his line in water, whereupon fisherman had fled. Very tall man, black-skinned, was seen one morning standing on rock beside Fay creek; man who saw him went toward him, thinking creature was human being, but when man approached him, creature jumped in water, "where he lived in a large rock, which was his home" (SM). A tall man, poko, who wears a long dress of feathers or fur, lives in large rock by Chimney canyon; imut, another manlike creature, lives in mts.; anaŋgayat lives in deep fissure